

Substitute for Form PTO-1449  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	Atty. Docket No.: 1001.1844106	Serial No.: 10/523,709
	Applicant: CLARK C. DAVIS et al.	
	Confirmation No.: 8385	
	371 Filing Date: 04 FEBRUARY 2005	Group Art: N/A

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	FILING DATE IF APPROPRIATE
	2002/0013540	01/31/2002	Jacobsen et al.		
	2002/0019599	02/14/2002	Rooney et al.		
	2002/0082499	06/27/2002	Jacobsen et al.		
	2003/0009208	01/09/2003	Snyder et al.		
	2003/0060732	03/27/2003	Jacobsen et al.		
	2003/0069520	04/10/2003	Skujins et al.		
	2003/0069521	04/10/2003	Reynolds et al.		
	2003/0093059	05/15/2003	Griffin et al.		
	2003/0105415	06/05/2003	Mirigian		
	2004/0002713	01/01/2004	Olson, Jr., et al.		
	2,441,166	05/11/1948	Raspert		
	3,452,742	07/01/1969	Muller		
	3,625,200	12/07/1971	Muller		
	3,890,977	06/24/1975	Wilson		
	4,003,369	01/18/1977	Heilman et al.		
	4,020,829	05/03/1977	Willson et al.		
	4,215,703	08/05/1980	Wilson		
	4,425,919	01/17/1984	Alston, Jr. et al.		
	4,545,390	10/08/1985	Leary		
	4,563,181	01/07/1986	Wijayarathna et al.		
	4,580,551	04/08/1986	Siegmund et al.		
	4,665,906	05/19/1987	Jervis		
	4,721,117	01/26/1988	Mar et al.		
	4,737,153	04/12/1988	Shimamura et al.		
	4,763,647	08/16/1988	Gambale		
	4,781,186	11/01/1988	Simpson et al.		
	4,800,890	01/31/1989	Cramer		
	4,811,743	03/14/1989	Stevens		
	4,827,941	05/09/1989	Taylor et al.		
	4,832,047	05/23/1989	Sepetka et al.		
	4,846,186	07/11/1989	Box et al.		
	4,846,193	07/11/1989	Tremulis et al.		
	4,867,173	09/19/1989	Leoni		
	4,875,489	10/24/1989	Messner et al.		
	4,884,579	12/05/1989	Engelson		
	4,911,148	03/27/1990	Sosnowski et al.		

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EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	FILING DATE IF APPROPRIATE
	4,917,102	04/17/1990	Miller et al.		
	4,932,959	06/12/1990	Horzewski et al.		
	4,934,380	06/19/1990	Toledo		
	4,953,553	09/04/1990	Tremulis		
	4,955,384	09/11/1990	Taylor et al.		
	4,955,862	09/11/1990	Sepetka		
	4,964,409	10/23/1990	Tremulis		
	4,966,163	10/30/1990	Kraus et al.		
	4,985,022	01/15/1991	Fearnot et al.		
	4,989,608	02/05/1991	Ratner		
	4,990,143	02/05/1991	Sheridan		
	4,994,069	02/19/1991	Ritchart et al.		
	4,998,923	03/12/1991	Samson et al.		
	5,007,434	04/16/1991	Doyle et al.		
	5,040,543	08/20/1991	Badera et al.		
	5,052,404	10/01/1991	Hodgson		
	5,063,935	11/12/1991	Gamble		
	5,095,915	03/17/1992	Engelson		
	5,106,455	04/21/1992	Jacobsen et al.		
	5,125,395	06/30/1992	Adair		
	5,144,959	09/08/1992	Gambale et al.		
	5,147,317	09/15/1992	Shank et al.		
	5,181,668	01/26/1993	Tsuji et al.		
	5,205,830	04/27/1993	Dassa et al.		
	5,211,183	05/18/1993	Wilson		
	5,238,004	08/24/1993	Sahatjian et al.		
	5,242,759	09/07/1993	Hall		
	5,243,996	09/14/1993	Hall		
	5,250,069	10/05/1993	Nobuyoshi et al.		
	5,254,106	10/19/1993	Feaster		
	5,254,107	10/19/1993	Soltesz		
	5,256,144	10/26/1993	Kraus et al.		
	5,259,393	11/09/1993	Corso, Jr., et al.		
	5,267,979	12/07/1993	Appling et al.		
	5,279,562	01/18/1994	Sirhan et al.		
	5,300,032	04/05/1994	Hibbs et al.		
	5,304,131	04/19/1994	Paskar		

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	5,306,252	04/26/1994	Yutori et al.		
	5,315,996	05/31/1994	Lundquist		
	5,322,064	06/21/1994	Lundquist		
	5,333,620	08/02/1994	Moutafis et al.		
	5,334,145	08/02/1994	Lundquist et al.		
	5,336,205	08/09/1994	Zenzen et al.		
	5,341,818	08/30/1994	Abrams et al.		
	5,345,937	09/13/1994	Middleman et al.		
	5,345,945	09/13/1994	Hodgson et al.		
	5,365,942	11/22/1994	Shank		
	5,365,943	11/22/1994	Jansen		
	5,368,564	11/29/1994	Savage		
	5,376,084	12/27/1994	Bacich et al.		
	5,406,960	04/18/1995	Corso, Jr.		
	5,411,476	05/02/1995	Abrams		
	5,437,288	08/01/1995	Schwartz et al.		
	5,438,993	08/08/1995	Lynch et al.		
	5,439,000	08/08/1995	Gunderson et al.		
	5,441,483	08/15/1995	Avitall		
	5,441,489	08/15/1995	Utsumi et al.		
	5,460,187	10/24/1995	Daigle et al.		
	5,476,701	05/05/1998	Noone		
	5,477,856	12/26/1995	Lundquist		
	5,507,301	04/16/1996	Wasicek et al.		
	5,507,729	04/16/1996	Lindenberg et al.		
	5,507,751	04/16/1996	Goode et al.		
	5,507,766	04/16/1996	Kugo et al.		
	5,514,128	05/07/1996	Hillsman et al.		
	5,520,194	05/28/1996	Miyata et al.		
	5,520,645	05/28/1996	Imran et al.		
	5,551,444	09/03/1996	Finlayson		
	5,554,139	09/10/1996	Okajima		
	5,562,619	10/08/1996	Mirarchi et al.		
	5,569,197	10/29/1996	Helmus et al.		
	5,569,200	10/29/1996	Umeno et al.		
	5,569,218	10/29/1996	Berg		
	5,571,073	11/05/1996	Castillo		

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	5,573,520	11/12/1996	Schwartz et al.		
	5,584,821	12/17/1996	Hobbs et al.		
	5,599,326	02/04/1997	Carter		
	5,599,492	02/04/1997	Engelson		
	5,601,539	02/11/1997	Corso Jr.		
	5,605,162	02/25/1997	Mirzaee et al.		
	5,622,184	04/22/1997	Ashby et al.		
	5,630,806	05/20/1997	Inagaki et al.		
	5,637,089	06/10/1997	Abrams et al.		
	5,658,264	08/19/1997	Samson et al.		
	5,666,968	09/16/1997	Imran et al.		
	5,666,969	09/16/1997	Urlick et al.		
	5,669,926	09/23/1997	Aust et al.		
	5,676,659	10/14/1997	McGurk		
	5,682,894	11/04/1997	Orr et al.		
	5,690,120	11/25/1997	Jacobsen et al.		
	5,720,300	02/24/1998	Fagan et al.		
	5,722,609	03/03/1998	Murakami		
	5,728,063	03/17/1998	Preissman et al.		
	5,741,429	04/21/1998	Donadio, III et al.		
	5,746,701	05/05/1998	Noone		
	5,769,830	06/23/1998	Parker		
	5,772,609	06/30/1998	Nguyen et al.		
	5,788,654	08/04/1998	Schwager		
	5,788,707	08/04/1998	Del Toro et al.		
	5,792,124	08/11/1998	Horrigan et al.		
	5,797,856	08/25/1998	Frisbie et al.		
	5,800,454	09/01/1998	Jacobsen et al.		
	5,807,249	09/15/1998	Qin et al.		
	5,827,225	10/27/1998	Ma Schwab		
	5,827,242	10/27/1998	Follmer et al.		
	5,827,424	10/27/1998	Follmer et al.		
	5,833,632	11/10/1998	Jacobsen et al.		
	5,836,926	11/17/1998	Peterson et al.		
	5,843,050	12/01/1998	Jones et al.		
	5,843,244	12/01/1998	Pelton et al.		
	5,851,203	12/22/1998	van Muiden		
	5,897,537	04/27/1999	Berg et al.		

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	5,902,254	05/11/1999	Magram		
	5,902,290	05/11/1999	Peacock, III et al.		
	5,904,657	05/18/1999	Unsworth et al.		
	5,906,618	05/25/1999	Larson, III		
	5,911,715	06/15/1999	Berg et al.		
	5,911,717	06/15/1999	Jacobsen et al.		
	5,916,178	06/29/1999	Noone		
	5,916,194	06/29/1999	Jacobsen et al.		
	5,931,830	08/03/1999	Jacobsen et al.		
	5,935,108	08/10/1999	Katoh et al.		
	5,951,539	09/14/1999	Nita et al.		
	5,971,975	10/26/1999	Mills et al.		
	6,001,068	12/14/1999	Uchino et al.		
	6,004,279	12/21/1999	Crowley et al.		
	6,014,919	01/18/2000	Jacobsen et al.		
	6,017,319	01/25/2000	Jacobsen et al.		
	6,022,369	02/08/2000	Jacobsen et al.		
	6,045,547	04/04/2000	Ren et al.		
	6,048,339	04/11/2000	Zirps, et al.		
	6,063,101	05/16/2000	Jacobsen et al.		
	6,063,200	05/16/2000	Jacobsen et al.		
	6,066,361	05/23/2000	Jacobsen et al.		
	6,106,485	08/22/2000	McMahon		
	6,106,488	08/22/2000	Fleming et al.		
	6,139,510	10/31/2000	Palermo		
	6,165,292	12/26/2000	Abrams et al.		
	6,024,730	02/15/2000	Eric Pagan		
	6,048,339	04/11/2000	Zirps et al.		
	6,171,296	01/09/2001	Chow		
	6,183,410	02/06/2001	Jacobsen et al.		
	6,193,686	02/27/2001	Estrada et al.		
	6,214,042	04/10/2001	Jacobsen et al.		
	6,228,073	05/08/2001	Noone et al.		
	6,251,092	06/26/2001	Qin et al.		
	6,260,458	07/17/2001	Jacobsen et al.		
	6,273,404	08/14/2001	Holman et al.		
	6,273,876	08/14/2001	Klima et al.		
	6,290,656	09/18/2001	Boyle et al.		

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	6,296,616	10/02/2001	McMahon		
	6,296,631	10/02/2001	Chow		
	6,302,870	10/16/2001	Jacobsen et al.		
	6,325,790	12/04/2001	Trotta		
	6,338,725	01/15/2002	Hermann et al.		
	6,346,091	02/12/2002	Jacobsen et al.		
	6,352,515	03/05/2002	Anderson et al.		
	6,355,027	03/12/2002	Le et al.		
	6,368,315	04/09/2002	Gillis et al.		
	6,368,316	04/09/2002	Jansen et al.		
	6,379,369	04/30/2002	Abrams et al.		
	6,390,993	05/21/2002	Cornish et al.		
	6,398,758	06/04/2002	Jacobsen et al.		
	6,428,489	08/06/2002	Jacobsen et al.		
	6,431,039	08/13/2002	Jacobsen et al.		
	6,440,088	08/27/2002	Jacobsen		
	6,478,778	11/12/2002	Jacobsen et al.		
	6,491,648	12/10/2002	Cornish et al.		
	6,491,671	12/10/2002	Larson, III et al.		
	6,508,803	01/21/2003	Horikawa et al.		
	6,524,301	02/25/2003	Wilson et al.		
	6,530,934	03/11/2003	Jacobsen et al.		
	6,553,880	04/29/2003	Jacobsen et al.		
	6,579,246	06/17/2003	Jacobsen et al.		
	6,602,280	08/05/2003	Chobotov		
	6,610,046	08/26/2003	Usami et al.		
	6,652,508	11/25/2003	Griffin et al.		
	6,682,493	01/27/2004	Mirigian		
	6,777,644	08/17/2004	Peacock, III et al.		

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	TRANSLATION
	AU 733966	04/02/1998	Australia		
	AU 723040	12/09/1997	Australia		
	PI 9712829-5	01/18/2000	Brazil		Yes

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	DOCUMENT NO.	DATE	COUNTRY	CLASS	TRANSLATION	
	CN 1230914	10/06/1999	China		Yes	
	DT 25 39 191	03/18/1976	DE		Yes	
	EP 0 045 931	02/17/1982	EPO		Yes-Abst	
	EP 0 069 522	01/12/1983	EPO			
	EP 0 087 933	09/07/1983	EPO			
	EP 0 111 044	06/20/1984	EPO		Yes-Abst	
	EP 0 181 174	01/23/1991	EPO			
	EP 0 521 595	01/07/1993	EPO			
	EP 0 608 853	08/03/1994	EPO			
	EP 0 778 038	06/11/1997	EPO			
	EP 0 778 039	06/11/1997	EPO			
	EP 0 778 040	06/11/1997	EPO			
	EP 0 790 066	08/20/1997	EPO			
	EP 0 812 599	12/17/1997	EPO			
	EP 0 865 773	09/23/1998	EPO			
	EP 0 917 885	05/26/1999	EPO			
	EP 0 935 947	08/18/1999	EPO			
	EP 0 937 481	08/25/1999	EPO			
	JP 63-181774 A	07/26/1988	Japan		Yes	
	JP 5-507857 A	11/11/1993	Japan		Yes	
	JP 6-501179 A	02/10/1994	Japan		Yes	
	JP 7-28562 U	01/31/1995	Japan		Partial translation	
	JP 7-51067 Y2	02/28/1995	Japan		Partial translation	
	JP 9-276413 A	10/28/1997	Japan		Yes	
	JP 9-294813 A	11/18/1997	Japan		Yes	
	JP 10-305039 (JP 3325828 B2)	11/17/1998	Japan		Yes	
	JP 10-328191 A	12/15/1998	Japan		Yes	
	JP 11-226131 A	08/24/1999	Japan		Yes	
	JP 11-267224 A	10/05/1999	Japan		Yes	
	JP 11-276491 A (JP3081831 B2)	10/12/1999	Japan		Yes	
	JP 2000-510722 A	08/22/2000	Japan		Yes	
	JP 2000-511083 A	08/29/2000	Japan		Yes	
	JP 2001-500808 A	01/23/2001	Japan		Yes	
	JP 2002-529137 A	09/10/2002	Japan		Yes	
	JP 2002-542901 A	12/17/2002	Japan		Yes	

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	JP 2002-543896 A	12/24/2002	Japan		Yes	
	JP 2003-517893 A	06/03/2003	Japan		Yes	
	WO 92/07619	05/14/1992	WIPO			
	WO 93/04722	03/18/1993	WIPO			
	WO 95/24236	09/14/1995	WIPO			
	WO 96/19255	06/27/1996	WIPO			
	WO 97/43949	11/27/1997	WIPO			
	WO 97/44083	11/27/1997	WIPO			
	WO 97/44086	11/27/1997	WIPO			
	WO 98/10694	03/19/1998	WIPO			
	WO 99/11313	03/11/1999	WIPO			
	WO 00/27303	05/18/2000	WIPO			
	WO 00/30710	06/02/2000	WIPO			
	WO 00/48645	08/24/2000	WIPO			
	WO 00/57943	10/05/2000	WIPO			
	WO 00/66199	11/09/2000	WIPO			
	WO 00/67845	11/16/2000	WIPO			
	WO 00/72907	12/07/2000	WIPO			
	WO 01/28620	04/26/2001	WIPO			
	WO 01/45773	06/28/2001	WIPO			
	WO 01/93920	12/13/2001	WIPO			
	WO 02/13682	02/21/2002	WIPO			
	WO 03/04086	01/16/2003	WIPO			

**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	"Mechanical Design and Systems Handbook", H.A. Rothbart, 1964, page 33-13 (one sheet).

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